Copy

STATE OF NEW YORK, DEPARTMENT OF LABOR

Division of Industrial Hygiene
80 Centre Street, New York 13, N.Y.

Registration No.
Date Registered

(SEE OVER FOR INSTRUCTIONS)

1 NAME OF OWNER (FIRM OR LESSEE)

Union Carbide Metals Company

2 ADDRESS IN FULL OF INSTALLATION

137 Forty-seventh Street

COUNTY

Niagara Falls, New York

2A. ADDRESS OF FIRM IF DIFFERENT FROM ABOVE

3. CONFINES OF INSTALLATION

Building 29, Building 77, and special storage dump on plant grounds.

4 INDUSTRY

Ferro-alloys

5 TOTAL NO. OF WORKERS EXPOSED TO RADIATION IN THIS INSTALLATION 18

6. ARE THE SOURCES NOW BEING REPORTED ON THIS FORM A PART OF AN INSTALLATION PREVIOUSLY REGISTERED WITH THE DIVISION OF INDUSTRIAL HYGIENE? ☐ YES ☒ NO IF YES, WHAT IS OUR REGISTRATION NUMBER FOR THAT INSTALLATION?

7 RADIATION PRODUCING EQUIPMENT (USE ADDITIONAL SHEETS IF NECESSARY)

EQUIPMENT

a. Number Fixed	a. Number Mobile	b. Description of Each Radiation Producing Machine or Unit	c. Purpose or Use	d. No of Workers Exposed

8 RADIOACTIVE MATERIALS (USE ADDITIONAL SHEETS IF NECESSARY)

MATERIAL

a. Types	b. Fixed	b. Mobile	c. Sealed	c. Un-Sealed	d Source Strength (In Curies)	e Estimated Quantity Used Annualy (In Curies)	f. Maximum Quantity on Hand (In Curies)	g. Purpose or Use	h. No of Workers Exposed
Natural uranium contained in columbite ore concentrate		x		x	0.45	0.45	0.45	Impurity and by-product in smelting of a special columbite concentrate.	18

9 NAME, TITLE AND BUSINESS ADDRESS OF PERSON IN CHARGE OF RADIATION PROTECTION

E. J. Boyle, Director-Development, Union Carbide Metals Co., Niagara Falls, N.Y.

Qualifications Training and experience in handling radioactive material at A.E.C. installations at Oak Ridge, Tennessee.

Date

Signature of Person in Charge of Radiation Protection

INSTRUCTIONS FOR COMPLETION OF THIS FORM

(NUMBERS CORRESPOND TO ITEMS ON THE FRONT)

1. NAME OF OWNER Industrial Code Rule No. 38, "Radiation Protection", defines owner as, "The person or organization having by law the administrative control of a source of radiation. ., whether as proprietor, lessee or otherwise."

2. ADDRESS IN FULL· Number, street; village, town or city where the radiation equipment or material is usually used or stored. In rural areas give road intersections, highway number, etc. Furnish county in all cases.

3. CONFINES OF INSTALLATION: Industrial Code Rule No. 38 states, "The confines of an installation shall be as designated by the owner A part of a building, an entire building or a plant may be designated as an installation." An installation is defined as, "A location where for a period of more than 30 days one or more sources of radiation are used, operated or stored."

4. INDUSTRY. The principal product or type of activity at this location, e.g , ordnance mfg., printing, electrical machinery mfg., communications, banking, etc. If you knew the Federal Government's Standard Industrial Classification for your plant, please give that Major Group Number also.

7. RADIATION PRODUCING EQUIPMENT Classify each piece of equipment being registered according to the general categories shown below. For each type of source indicate the quantity of fixed and/or mobile units by appropriate entries under column "a. Number". Describe under column "b" each type of source giving the specific information requested below In column "c" tell purpose of use of the equipment. For each type of source indicate the number of workers exposed to radioactivity by entries in column "d".

   X-RAYS. give the KVP and maximum tube current. Give purpose or use, e g., diagnostic (radiographic, fluoroscopic or both), therapeutic, industrial radiography of castings, fluorescence analysis, diffraction for crystallography, fluoroscopy of materials, thickness gauge.

   PARTICLE ACCELERATOR: give type, voltage and purpose or use, e.g , Betatron, 30 million volts, X-ray generation, Van de Graaf electrostatic accelerator, 10 million volts, acceleration of protons.

   HIGH VOLTAGE EQUIPMENT specify device and its use, e.g , Eidophone projection apparatus for theatre television, GE electron microscope for research, RCA Kenotron rectifier.

   STATIC ELIMINATORS give type and length of active face, e.g., Ionotron T-200, 24" long. Also tell briefly the types of machines on which installed or other use.

   PROCESS CONTROL DEVICES. list such equipment, e.g., Beta ray or Gamma ray thickness gauges, humidity gauges, vacuum gauges, etc. Give amount and type of radioactive element and the type of machine on which installed or other use.

   NUCLEAR REACTORS. give power in kilowatts and briefly describe type, e g., U-235 package power reactor, air cooled, U-238 homogeneous fast breeder pressurized water reactor, etc.

8. RADIOACTIVE MATERIALS. List types in column "a". Specify whether source is Fixed or Mobile, Sealed or Unsealed by check marks (X) in the applicable columns. Give strength on hand in column "d". Estimate the quantity of material to be used annually in column "e", and the maximum quantity on hand at any one time in column "f" All quantities of radioactive material should be expressed in curies. For example, Iodine 131, mobile, unsealed, .0005 curies now on hand, used annualy 1 curie, maximum on hand 01 curies, used as tracer, 6 exposed.